

Application No. 10/735,554

REMARKS

Claims 1-20 are pending in this application. Claims 1 and 6 have been amended. Claims 11-20 have been cancelled.

Claims 1, 6, 12 and 17 were rejected under 35 USC §103(a) as being unpatentable over Bahl et al (U.S. Patent No. 6,839,560) in view of Lundgren (U.S. Publication No. 2003/0008671) and further in view of McBurney (U.S. Patent No. 5,590,043). Claims 11 and 16 were rejected under 35 USC §103(a) as being unpatentable over Bahl et al (U.S. Patent No. 6,839,560) in view of Lundgren (U.S. Publication No. 2003/0008671). Claims 2-5, 7-10, 13-15 and 18-20 were rejected under 35 USC §103(a) as being unpatentable over Bahl et al (U.S. Patent No. 6,839,560) in view of Lundgren (U.S. Publication No. 2003/0008671) and further in view of McBurney (U.S. Patent No. 5,590,043) and further in view of Rudrapatna et al. (U.S. Patent No. 6,052,598).

Claim 1, as amended, claims a mobile device mobile device, comprising: a motion detector for detecting motion of the mobile device, wherein the motion detector generates a Boolean value indicating the mobile device is moving if the detected motion is greater than a threshold amount; an orientation detector for determining orientation of the mobile device; a memory storing wireless signal strength calibration data comprising a list of wireless signal strengths, orientations and known locations; an antenna for receiving network radio signals from wireless base stations transmitting in an area; a location detection module for measuring a wireless signal strength of any received network radio signals from the antenna and for determining the location of the mobile device using measured wireless signal strength with reference to the wireless signal strength calibration data, motion detection data and orientation data, wherein if the mobile device is moving, the location detection module determines location of the mobile device with reference to instantaneous wireless signal strength; and wherein if the mobile device is not moving, the location detection module determines location of the mobile device with reference to statistically corrected measured wireless signal strength received from a location correction module, for applying a statistical correction to the measured wireless signal

Application No. 10/735,554

strength received by the location detection module; wherein the location module first considers measured wireless signal strengths taken at the same orientation as determined by the orientation detector for determining location of the mobile device and if no location is determined considers measured wireless signal strengths at other orientations.

Claim 6, as amended, claims a method for determining a location of a mobile device, comprising: storing wireless signal strength calibration data comprising a list of wireless signal strengths, orientations and known locations; receiving network radio signals from wireless base stations transmitting in an area; measuring a wireless signal strength of any received network radio signals; detecting motion of the mobile device, wherein a Boolean value indicating the mobile device is moving is generated if the detected motion is greater than a threshold amount; determining orientation of the mobile device; determining the location of the mobile device using measured wireless signal strength with reference to the wireless signal strength calibration data, motion detection data and orientation data; wherein if the mobile device is moving, determining location of the mobile device with reference to instantaneous wireless signal strength; and wherein if the mobile device is not moving, applying a statistical correction to the measured wireless signal strength and determining location of the mobile device with reference to statistically corrected measured wireless signal strength ; considering measured wireless signal strengths taken at the same orientation as the determined orientation and if no location is determined considering measured wireless signal strengths at other orientations.

Nothing in Bahl, Lundgren, McBurney, or Rudrapatna whether taken alone or in combination teaches or suggests a mobile device (or method) which includes, in part "wherein if the mobile device is moving, the location detection module determines location of the mobile device with reference to instantaneous wireless signal strength; and wherein if the mobile device is not moving, the location detection module determines location of the mobile device with reference to statistically corrected measured wireless signal strength received from a location correction module, for applying a statistical correction to the measured wireless signal strength received by the location detection module".

Application No. 10/735,554

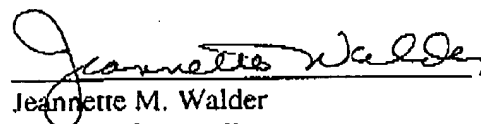
Nothing in Bahl, Lundgren, McBurney, or Rudrapatna whether taken alone or in combination teaches or suggests a mobile device (or method) which includes, in part "wherein the location module first considers measured wireless signal strengths taken at the same orientation as determined by the orientation detector for determining location of the mobile device and if no location is determined considers measured wireless signal strengths at other orientations."

Applicants believe that Claims 1-10 are in condition for allowance.

No additional fee is believed to be required for this amendment; however, the undersigned Xerox Corporation attorney hereby authorizes the charging of any necessary fees, other than the issue fee, to Xerox Corporation Deposit Account No. 24-0025.

Reconsideration of this application and allowance thereof are earnestly solicited. In the event the Examiner considers a personal contact advantageous to the disposition of this case, the Examiner is requested to call the undersigned Attorney for Applicants, Jeannette Walder.

Respectfully submitted,



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Xerox Corporation
Santa Ana, California
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